From the INTERNATIONAL SEARCHING AUTHORITY

To: JACOBACCI & PARTNERS S.P.A. Attn. Siniscalco, Fabio Via Senato, 8 I-20121 Milano ITALY

7/06/2005

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1) Date of mailing (day/month/year) 23/06/2005 Applicant's or agent's file reference FOR FURTHER ACTION See paragraphs 1 and 4 below E059795-CB International filing date International application No. (day/month/year) 25/02/2005 PCT/IT2005/000103 Applicant

Uľ	ATAR	RESITA DEGLI STODI DI MILANO
1.	x	The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.
		Filling of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.
		Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 740.14.35
		For more detailed instructions, see the notes on the accompanying sheet.
2.		The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3.		With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
		the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.
4.	Rem	ninders
	Inter	rity after the expiration of 18 months from the priority date, the international application will be published by the mational Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international lication, or of the priority claim, must reach the International Bureau as provided in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, ore the completion of the technical preparations for international publication.
	Inter	applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the mational Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an rational preliminary examination report has been or is to be established. These comments would also be made available to public but not before the expiration of 30 months from the priority date.
	exar date	nin 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary mination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's

Name and mailing address of the International Searching Authority

months.

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk

Guide, Volume II, National Chapters and the WIPO Internet site.

Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

Fax: (+31-70) 340-3016

Authorized officer

Marthe Oldendorf

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples Illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- (Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims):
 *Claims 1 to 6 and 14 unchanged: claims 7 to 13 cancelled; new claims 15, 16 and 17 added * or
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Form PCT/ISA/220					
E059795-CB	ACTION	as well	as, where applicable, item 5 below.			
International application No.	International filing date (day/month	vyear)	(Earliest) Priority Date (day/month/year)			
PCT/IT2005/000103	25/02/2005		26/02/2004			
Applicant						
TOTAL CONTROL OF THE PARTY OF T	T MTT DNO					
UNIVERSITA' DEGLI STUDI D	I MILIANO					
This International Search Report has bee according to Article 18. A copy is being to	n prepared by this International Sea ansmitted to the International Burea	rching Auth	nority and is transmitted to the applicant			
This International Search Report consists	of a total of 4 sh	eets.				
X It is also accompanied by	a copy of each prior art document o	ited in this	report.			
Basis of the report						
	international search was carried out less otherwise indicated under this it		sis of the international application in the			
The international this Authority (Ru		of a transl	ation of the international application furnished to			
b. With regard to any nucle	otide and/or amino acid sequence	disclosed	in the international application, see Box No. I.			
2. Certain claims were fou	2. Certain claims were found unsearchable (See Box II).					
3. Unity of invention is lac	3. Unity of invention is lacking (see Box III).					
4. With regard to the title,						
X the text is approved as s	ubmitted by the applicant.					
the text has been establi	shed by this Authority to read as follo	ows:				
5. With regard to the abstract,						
X the text is approved as s	submitted by the applicant.					
			ity as it appears in Box No. IV. The applicant rch report, submit comments to this Authority.			
6. With regard to the drawings,						
a. the figure of the drawings to be	published with the abstract is Figure	No				
as suggested by	the applicant.					
	his Authority, because the applicant					
	his Authority, because this figure bet	ter charact	erizes the invention.			
b. none of the figures is to	be published with the abstract.					

INTERNATIONAL SEARCH REPORT

International Application No PCT/IT2005/000103

CLASSIFICATION OF SUBJECT MATTER PC 7 A23L1/212 A23L A. CLASS A23L2/74 A23L2/02 A23L1/015 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 A23L Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to daim No. Citation of document, with indication, where appropriate, of the relevant passages Category ° 2-11. EP 0 174 594 A (THE TEXAS A&M UNIVERSITY X 13-17 SYSTEM) 19 March 1986 (1986-03-19) 24-35 claims figures 1-3 examples page 10, line 7 - line 13 page 7, line 23 - page 8, line 4 page 5, line 10 - line 21 page 6, line 26 - page 7, line 7 BG 61 472 B1 (TODOROV, VESELIN V; IVANOV 1 - 35X TSVETAN KH) 30 September 1997 (1997-09-30) the whole document Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the citation or other special reason (as specified) document is combined with one or more other such docu-ments, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or other means in the art. document published prior to the international filing date but "&" document member of the same patent family later than the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 23/06/2005 6 June 2005 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

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Neys, P

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IT2005/000103

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to Claim No.
A	EP 0 137 671 A (PHILIP MORRIS INCORPORATED) 17 April 1985 (1985-04-17) claims examples page 2, line 15 - line 27 page 4, line 6 - line 33	1-35
Α	WO 88/06005 A (BUCHER-GUYER AG) 25 August 1988 (1988-08-25) claims page 7, paragraph 2	1-35
Α	FR 2 760 756 A (RICHARD DE NYONS) 18 September 1998 (1998-09-18) figure claims 1-4	1-35
Α	US 5 756 141 A (CHEN ET AL) 26 May 1998 (1998-05-26) claims 1-4,10	1-35
A	WO 01/80667 A (TROPICANA PRODUCTS, INC; CHU, OSVALDO, A; PEPPER, MARK, A) 1 November 2001 (2001-11-01) claims examples page 1, paragraph 2	1-35

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/IT2005/000103

	tent document Publication I in search report date		Patent family member(s)		Publication date			
FP (0174594		19-03-1986	US	4643902	A	17-02-1987	
`		• •		AT	59534	T	15-01-1991	
				ΑU	57 9 181	B2	17-11-1988	
				AU	4698685	Α	13-03-1986	
				CA	1243540	A1	25-10-1988	
				DE	3581024		07-02-1991	
				EP	0174594		19-03-1986	
				ES	8705204		16-07-1987	
				ES	8706399		16-09-1987	
				JP	1672672		12-06-1992	
				JP	3032989		15-05-1991	
				JP	61111673		29-05-1986	
				MX	7662		19-06-1990	
				PH	22544		17-10-1988	
				ZA	8506752	Α	28-05-1986	
BG	61472	B1	30-09-1997	NONE				
EP	0137671	Α	17-04-1985	EP	0137671	A1	17-04-1985	
WO	8806005	 А	25-08-1988	CH	673375	A5	15-03-1990	
				WO	8806005	A1	25-08-1988	
				CN	88101120		24-08-1988	
				EP	0301050	A1	01-02-1989	
FR	2760756	Α	18-09-1998	FR	2760756	A1	18-09-1998	
US	5756141	Α	26-05-1998	AU	2331297	Α	10-10-1997	
				WO	9734504	A1	25-09-1997	
WO	0180667	A	01-11-2001	US	6544577	B1	08-04-2003	
				AU	5714001		07-11-2001	
				BR	0110216		15-07-2003	
				CA	2407363		01-11-2001	
				CN	1437451		20-08-2003	
				EP	1276393		22-01-2003	
				WO	0180667	A2	01-11-2001	
				US	2003064144		03-04-2003	

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY PCT To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION See paragraph 2 below see form PCT/ISA/220 Priority date (day/month/year) International application No. International filing date (day/month/year) 26.02.2004 PCT/IT2005/000103 25.02.2005 International Patent Classification (IPC) or both national classification and IPC A23L1/212, A23L1/015, A23L2/02, A23L2/74 Applicant UNIVERSITA' DEGLI STUDI DI MILANO This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application ☐ Box No. VIII Certain observations on the international application **FURTHER ACTION** 2. If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. **Authorized Officer** Name and mailing address of the ISA:



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10/589335

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IT2005/000103

		WARD TO THE RESERVED				
_	Box N	o. I Basis of the opinion				
 With regard to the language, this opinion has been established on the basis of the international application the language in which it was filed, unless otherwise indicated under this item. 						
	la	is opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)).				
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
	a. type	of material:				
		a sequence listing				
		table(s) related to the sequence listing				
	b. form	nat of material:				
		in written format				
		in computer readable form				
	c. time	of filing/furnishing:				
		contained in the international application as filed.				
		filed together with the international application in computer readable form.				
		furnished subsequently to this Authority for the purposes of search.				
3.	h C	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as opropriate, were furnished.				
4.	. Additi	onal comments:				

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-35

Inventive step (IS)

Yes: Claims

No: Claims

1-35

Industrial applicability (IA)

Yes: Claims

1-35

No: Claims

2. Citations and explanations

see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

PCT/IT2005/000103

Re Item V

Reference is made to the following documents:

D1: EP-A-0174594 D2: BG-B-61472

- 1. D1 (relevant passages see search report) discloses a method of producing sterile and concentrated juices comprising the following steps:
- (a) providing from a juice-bearing fruit or vegetable a juice suitable for ultrafiltration;
- (b) permeating said juice through an **ultrafiltration** (UF) stage which preferentially passes a UF permeate containing flavor and aroma components while retaining spoilage microorganisms in a UF retentate;
- (c) **treating** said UF **retentate** to inactivate a sufficient number of spoilage microorganisms to inhibit spoilage of the juice under storage conditions; and
- (d) **recombining** said treated UF retentate with said UF permeate containing flavor and aroma components.

In the examples it is clearly shown that the pulp removed in a first step (example 1) can in a later stage, but before step (c), be recombined with the retentate (example 3). The retentate can be heat treated, but also chemically treated which can be considered as a washing operation (page 10, lines 7-13).

Further, it is clearly indicated in D1 that by ultrafiltration the proteins are retained in the retentate (page 8, lines 2-4).

D2 discloses a the method for producing clear naturally coloured juices with preserved aroma and vitamins, without any heat and chemical treatment. The crushed fruit and vegetables are micro-filtrated after which the micro filtrated juice is ultra-filtrated and the permeate produced is subjected to reverse osmosis where natural concentrate and fruit or vegetable water is produced. Fruit or vegetable paste is produced from the ultrafiltration permeate and the pulp, after extraction of the dyestuff (washing step). if the applicant is of the opinion that D2 is not relevant, a translation should be provided.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IT2005/000103

The subject-matter of claim 1 is thus not novel in view of D1 and D2 (Article 33(2) PCT).

- 2. The features of claims 2-31 are also disclosed in D1 and/or D2 and thus not novel.
- 3. The product of claims 32-35 is also disclosed in D1 and/or D2. The subject-matter of claims 32-35 is considered to lack novelty.